CHEN Zheyu

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EDUCATION & WORK

Beijing Institute of Technology, PhD Student in Computer Science ⸺ 2025.9 - present

The Hong Kong Polytechnic University
- RA in ASTAPLE Lab ⸺ 2025.4 - 2025.8
- MSc in Electronic and Information Engineering ⸺ 2023.9 - 2025.3

Beijing University of Technology | University College Dublin
- B.S. in Software Engineering ⸺ 2019.9 - 2023.7
- Honors Bachelor Degree in **BJUT**, First-class Honors Degree in **UCD**

RESEARCH ORIENTATION

Data Mining–Recommendation System
- Multimodal Recommendation, Group Recommendation
- Graph-based Recommendation, Contrastive Learning-based Recommendation

PAPER LIST

Publication

- Jinfeng Xu, **Zheyu Chen**, Shuo Yang, Jinze Li, Ziyue Peng, Zewei Liu, Hewei Wang, Jiayi Zhang, and Edith Ngai, "Multi-modal Dynamic Proxy Learning for Personalized Multiple Clustering" *The 40th Annual AAAI Conference on Artificial Intelligence (AAAI 2026)* CCF A Conference [link]

- Jinfeng Xu, **Zheyu Chen**, Shuo Yang, Jinze Li, Wei Wang, Xiping Hu, Steven Hoi, and Edith Ngai, "A Survey on Multimodal Recommender Systems: Recent Advances and Future Directions" *IEEE Transactions on Multimedia (TMM 2025)* JCR Q1 [link]

- Jinfeng Xu, **Zheyu Chen**, Jinze Li, Shuo Yang, Wei Wang, Xiping Hu, Raymond Chi-Wing Wong, and Edith Ngai, "Enhancing Robustness and Generalization Capability for Multimodal Recommender Systems via Sharpness-Aware Minimization" *IEEE Transactions on Knowledge and Data Engineering (TKDE 2025)* JCR Q1 [link]

- **Zheyu Chen**, Jinfeng Xu, Hewei Wang, Shuo Yang, Zitong Wan, Haibo Hu, "Hypercomplex Prompt-aware Multimodal Recommendation" *The 34th ACM International Conference on Information and Knowledge Management (CIKM 2025)* CCF B Conference [link]

- Jinfeng Xu, **Zheyu Chen**, Jinze Li, Shuo Yang, Wei Wang, Xiping Hu, Edith C-H Ngai, "Enhancing Graph Collaborative Filtering with FourierKAN Feature Transformation" *The 34th ACM International Conference on Information and Knowledge Management (CIKM 2025)* CCF B Conference [link]

- Jinfeng Xu, **Zheyu Chen**, Shuo Yang, Jinze Li, Edith C. H. Ngai, "The Best is Yet to Come: Graph Convolution in the Testing Phase for Multimodal Recommendation" *The 33rd ACM International Conference on Multimedia (MM 2025)* CCF A Conference [link]

- Jinfeng Xu, **Zheyu Chen**, Shuo Yang, Jinze Li, Hewei Wang, Wei Wang, Xiping Hu, Edith CH Ngai, "NLGCL: Naturally Existing Neighbor Layers Graph Contrastive Learning for Recommendation [spotlight oral]" *The 19th ACM Recommender Systems Conference (RecSys 2025)* CCF B Conference [link]

- Jinfeng Xu, **Zheyu Chen**, Shuo Yang, Jinze Li, Hewei Wang, Wei Wang, Xiping Hu, Edith CH Ngai, "MDVT: Enhancing Multimodal Recommendation with Model-Agnostic Multimodal-Driven Virtual Triplets" *The 31st SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2025)* CCF A Conference [link]

- Mingxiao Huo, Jiayi Zhang, Hewei Wang, Jinfeng Xu, **Zheyu Chen**, Huilin Tai, Ian Yijun Chen, "Spec-LLaVA: Accelerating Vision-Language Models with Dynamic Tree-Based Speculative Decoding" *TTODLer-FM @ ICML 2025* CCF A Workshop [link]

- **Zheyu Chen**, Jinfeng Xu, Yutong Wei, Ziyue Peng, "Squeeze and Excitation: A Weighted Graph Contrastive Learning for Collaborative Filtering" *The 48th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2025)* CCF A Conference [link]

- Jinfeng Xu, **Zheyu Chen**, Wei Wang, Xiping Hu, Sang-Wook Kim, Edith Ngai, "COHESION: Composite Graph Convolutional Network with Dual-Stage Fusion for Multimodal Recommendation" *The 48th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2025)* CCF A Conference [link]

- **Zheyu Chen**, Jinfeng Xu, Haibo Hu, "Don't Lose Yourself: Boosting Multimodal Recommendation via Reducing Node-neighbor Discrepancy in Graph Convolutional Network" *The 50th IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2025)* CCF B Conference [link]

- Jinfeng Xu, **Zheyu Chen**, Shuo Yang, Jinze Li, Hewei Wang, Edith C-H Ngai, "MENTOR: Multi-level Self-supervised Learning for Multimodal Recommendation" *39th Annual AAAI Conference on Artificial Intelligence (AAAI 2025)* CCF A Conference [link]

- Jinfeng Xu, **Zheyu Chen**, Jinze Li, Shuo Yang, Hewei Wang, Edith C. H. Ngai, "AlignGroup: Learning and Aligning Group Consensus with Member Preferences for Group Recommendation", *33rd ACM International Conference on Information and Knowledge Management (CIKM 2024)* CCF B Conference [link]
- Jinfeng Xu, **Zheyu Chen**, Zixiao Ma, Jiyi Liu, Edith C. H. Ngai, "Improving Consumer Experience With Pre-Purify Temporal-Decay Memory-Based Collaborative Filtering Recommendation for Graduate School Application", *in IEEE Transactions on Consumer Electronics (TCE 2024)* JCR Q1 [link]
- Yuyang Wang, Tianli Ren, Zhuoyi Zhang, **Zheyu Chen**, Jinfeng Xu, Zixiao Ma, Pai Zhu, Mingjia Zhang, "A Review of Gray-scale Image Recoloring Methods With Neural Network Based Model", *International Conference on Intelligent Vision and Computing(ICIVC 2022)* EI Conference [link]

Preprint

- Shuo Yang, Xinran Zheng, Jinfeng Xu, Jinze Li, Danyang Song, **Zheyu Chen**, Edith C.H. Ngai, "Generative AI for Vulnerability Detection in 6G Wireless Networks: Advances, Case Study, and Future Directions". arXiv preprint [link]
- Jinfeng Xu, **Zheyu Chen**, Wei Wang, Xiping Hu, Jiyi Liu, Edith C. H. Ngai, "Lobster: Bilateral Global Semantic Enhancement for Multimedia Recommendation." *Available at SSRN 4713353 (INFFUS Minor Revision)*. SSRN preprint [link]

ACADEMIC SERVICES (REVIEWER)

- 2026 **Expert Systems with Applications** Reviewer JCR Q1, IF=7.5
- 2026 **Knowledge-Based Systems** Reviewer JCR Q1, IF=7.6
- 2026 **IEEE Wireless Communications Magazine** Reviewer JCR Q1, IF=11.6
- 2026 **Neural Networks** Reviewer JCR Q1, IF=6.3
- 2026 AAAI Program Committee *(AAAI)* CCF A Conference
- 2025/26 IEEE International Conference on Acoustics, Speech, and Signal Processing *(ICASSP)* CCF B Conference
- 2025 IEEE International Joint Conference on Neural Networks *(IJCNN)* CCF C Conference